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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/561,799	12/21/2005	Katsuhiko Oyama	33082M294	5867		
441 7590 04212999 SMITH, GAMBRELL & RUSSELL 1130 CONNECTICUT AVENUE, N.W., SUITE 1130			EXAM	EXAMINER		
			GERRITY, STE	GERRITY, STEPHEN FRANCIS		
WASHINGTON, DC 20036		ART UNIT	PAPER NUMBER			
			3721	•		
			MAIL DATE	DELIVERY MODE		
			04/21/2009	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/561,799 OYAMA ET AL.

earned patent term adjustment. See 37 CFR 1.704(b	).
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Office Action Summary	Examiner	Art Unit					
	Stephen F. Gerrity	3721					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  If NO period or reply is specified above, the miximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  Faiture to reply which the sector extended period for reply will be apply and will expire SIX (6) MONTHS from the mailing date of this communication.  Faiture to reply which the sector extended period for reply will be apply and will expire SIX (6) MONTHS from the mailing date of this communication, even if mixing the state of the section of the secti							
Status							
1) Responsive to communication(s) filed on 15 Ja	nuan/ 2009						
- · · · · - · · · · - · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·						
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
·	st parte quayre, 1000 c.2. 11, 10	0.0.2.0.					
Disposition of Claims							
<ol> <li>Claim(s) <u>1-7</u> is/are pending in the application.</li> </ol>							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-7</u> is/are rejected.							
<ol><li>Claim(s) is/are objected to.</li></ol>							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r						
10)⊠ The drawing(s) filed on <u>15 January 2009</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
<del>-</del>							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>							
<ol><li>Certified copies of the priority documents have been received in Application No</li></ol>							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
3) Information Disclosure Statement(s) (PTO/SE/08)	5) Notice of Informal P 6) Other:	atert.Application					
Paper No(s)/Mail Date	o) Other:						

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#### DETAILED ACTION

### Drawings

 The replacement sheet of drawings was received on 15 January 2009. The drawing is acceptable.

#### Specification

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

## Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1 and 3/1 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsushima et al. (JP 2000-150613) in view of Tokunaga (US 2003/0031537).

The Matsushima et al. reference discloses a processing apparatus including a partition 12 between an inside (left-side fig. 5) and an outside (right-side fig. 5), a container 11 having a lid 15, an opening part provided in the partition 12 through which the two sides communicate, a door mechanism 33 that can close the opening part, a lid opening and closing mechanism 30 provided at the door mechanism 33 which is horizontally movable (as evidenced from comparing the various figures of Matsushima et al.), a driving unit 35, 36, 37 that moves the lid opening and closing mechanism 30.

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and a cover member 18 that defines a driving unit arrangement room. The Matsushima et al. reference meets all of applicant's claimed subject matter with the exception of the gas-discharging mechanism that discharges gas in the driving unit arrangement room. The Tokunaga reference discloses a similar type of processing unit including a gas-discharging mechanism 48 that discharges gas in the driving unit arrangement room between 27 and 46. It would have been obvious to one having ordinary skill in the art, at the time applicant's invention was made, to have modified the Matsushima et al. processing apparatus to have included a gas-discharging mechanism that discharges gas in the driving unit arrangement room, as taught by Tokunaga, for the benefit of removing gas and dust from around the articles to be processed.

Regarding claim 3/1, the Matsushima et al. reference discloses a sealing member 13 provided around the whole circumference of an end edge of the opening part on a side of the outside space area, and that the lid opening and closing mechanism 30 is hermetically connectable with the sealing member by an action of the driving unit when closing occurs.

 Claims 2 and 3/2 are rejected under 35 U.S.C. 103(a) as being unpatentable over the prior art as applied to claim 1 above, and further in view of Otaguro (JP 2002-170860).

The Matsushima et al. processing apparatus, as modified by Tokunaga above, meets all of applicant's claimed subject matter with the exception of the inclined plane on the end edge of the opening part, and the door mechanism is movable in a plane direction of the partition. The Otaguro reference teaches that it is old and well known in

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the relevant art to provide an inclined plane on the end edge of the opening part, and that the door mechanism is movable in a plane direction of the partition. It would have been obvious to one having ordinary skill in the art, at the time applicant's invention was made, to have further modified the Matsushima et al. process device by having replaced the Z-axis cylinder (21), which raises and lowers the isolation unit (18), and the cam groove (25), cam plate (26), cam roller (28), and X-axis cylinder (27), which enable motion toward and away from the partition wall (12) of the isolation unit (18), with the mechanism provided with members having inclined surfaces which, when the members are raised and lowered with respect to each other, result in the inclined surfaces moving toward and away from each other, as taught by Otaguro, for the benefit of ensuring a tight closing of the door mechanism with the partition opening.

Regarding claim 3/2, the Matsushima et al. reference discloses a sealing member 13 provided around the whole circumference of an end edge of the opening part on a side of the outside space area, and that the lid opening and closing mechanism 30 is hermetically connectable with the sealing member by an action of the driving unit when closing occurs.

 Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over the prior art as applied to claims 1, 2 or 3 above, and further in view of Osada (JP 2002-357271).

The Matsushima et al. process apparatus, as modified by Tokunaga and/or Otaguro above {depending on the dependency of the claim}, meets all of applicant's claimed subject matter with the exception of the sealing member having a Y-shaped section, but the Osada reference teaches that it is old and well known to provide a

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sealing member having a Y-shaped section, as seen in fig. 7B, for enhancing a sealing area between two relevant members of a processing apparatus. It would have been obvious to one having ordinary skill in the art, at the time applicant's invention was made, to have further modified the Matsushima et al. process apparatus, by having replaced the flat sealing member 13 with a sealing member having a Y-shaped section, as taught by Osada, in order to enhance the sealing area between two relevant members of the processing apparatus.

 Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over the prior art as applied to claims 1, 2 or 3 above, and further in view of Iwai et al. (JP 6-302679).

The Matsushima et al. processing apparatus, as modified by Tokunaga, Otaguro and/or Osada {depending on the dependency of the claim}, meets all of applicant's claimed subject matter with the exception of the pressure-adjusting mechanism in the door mechanism. The Iwai et al. discloses a similar type of processing apparatus in which it is shown to be old and well known to provide a pressure-adjusting mechanism, wherein an electromagnetic valve (148) is opened, thereby opening up two spaces and eliminating an air pressure difference there between. It would have been obvious to one having ordinary skill in the art, at the time applicant's invention was made, to have further modified the Matsushima et al. processing apparatus by having substituted pressure-adjusting mechanism in the form of the electromagnetic valve (148) disclosed in Iwai et al., in place of the purge port (38) and exhaust port (39) as the means for making the pressure in the isolation chamber (17) and transfer chamber (6)

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the same. Furthermore, a processing apparatus of the claimed variety, wherein the degree to which a valve is opened is controlled so as to regulate air currents in order to prevent the raising of dust due to air currents is a conventionally known device, and gradually opening the electromagnetic valve disclosed in Iwai et al. is merely a feature appropriately determined as needed by a person skilled in the art.

# Response to Arguments

- Applicant's arguments filed 15 January 2009 have been fully considered but they are not persuasive.
- Applicant has argued that because the secondary reference to Tokunaga has a door
  which is moved vertically as opposed to horizontally it cannot be said to teach what
  is taught in the claimed invention set forth in claim 1. The applicant argues that the
  combination of Matsushima and Tokunaga would teach a gas-discharging
  mechanism arranged for an area in which the door is vertically movable. This may
  or may not be true, but it does not appear to be relevant to the subject matter which
  is claimed.
- This argument is not persuasive because the argument fails to take into account what is taught by the totality of the applied prior art references of Matsushima and Tokunaga. Specifically, as is seen from the figures of Matsushima, the lid opening and closing mechanism is horizontally movable and thus the particular claimed limitation (added by the amendment of 15 January 2009) is already met by Matsushima. The argument presented by applicant does not appear to be relevant to what the prior art would teach a skilled artisan. Furthermore, applicant's

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arguments against the references individually appears to be without merit because one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See <u>In re Keller</u>, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); <u>In re Merck & Co.</u>, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

#### Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen F. Gerrity whose telephone number is 571-272-4460. The examiner can normally be reached on Monday - Friday from 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on 571-272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stephen F. Gerrity/

Primary Examiner, Art Unit 3721

20 April 2009